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(71) Applicant: **MITSUI PETROCHEM IND LTD**
(72) Inventor: **YAMAGUCHI MASAYOSHI**
WAKUMOTO HIROSHI
ISHIMOTO AKIO

(54) POLYPROPYLENE COMPOSITION

(57) Abstract:

PURPOSE: To obtain a polypropylene composition having excellent rigidity, heat resistance and impact resistance.

CONSTITUTION: A polypropylene composition comprises (A) 65-75 pts.wt. highly crystalline polypropylene having $\geq$65% crystallinity measured by X-ray diffraction method, $\geq$0.97 pendant isotacticity 1_5 measured by ^{13}C-NMR method, $\geq$6 molecular weight distribution obtained by GPC method and 10-40g/10 minutes melt flow rate MFR and (B) 10-25 pts.wt. styrene ethylene/butylene styrene block copolymer and (C) 5-20 pts.wt. inorganic filler.

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DIALOG(R)File 351:Derwent WPI

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WPI Acc No: 1994-260672/199432
Polypropylene compsns of improved rigidity heat and impact resistances - comprise highly crystalline polypropylene, polystyrene polypolyethylene/butylene polystyrene block copolymer, and inorganic filler
Patent Assignee: MITSUI PETROCHEM IND CO LTD (MITC)
Number of Countries: 001 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 6192504	A	19940712	JP 92342170	A	19921222	199432	B
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Priority Applications (No Type Date): JP 92342170 A 19921222
Patent Details:

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JP 6192504	A		7	C08L-023/10	
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Abstract (Basic): JP 6192504 A
Compsn. comprises (A) 65-75 pts. wt. of a highly crystalline polypropylene having not less than 65% of crystallinity as determined by the X-ray diffraction, not less than 0.97 of pentad isotacticity I5, not less than 6 of a MW distribution (Mw/Mn) as determined by the CPC method and 10-40 g/10 min. of flow melt rate (MFR), (B) 10-35 pts. wt. of a styrene.ethylene/butylene.styrene block copolymer and (C) 5-20 pts. wt. of an inorganic filler.
USE/ADVANTAGE - Polypropylene compsn. shows improved rigidity, heat resistance and impact resistance.
In an example, 70 pts. of polypropylene, with 68% crystallinity, 17.0 min. of MFR, 0.98 of I5 and 12 of Mw/Mn, 20 parts of S.E/B.S block copolymer (2Kraton G 1652 by Shell Chemical) and 10 parts of talc were mixed, followed by injection moulding to produce an ASTM test piece which showed flexural modulus of 22700 kg/cm2 and Izod impact resistance of 18 kg.cm/cm.
Dwg.0/0
Derwent Class: A13; A17
International Patent Class (Main): C08L-023/10
International Patent Class (Additional): C08K-003/34; C08L-053/00; C08L-023/10; C08L-053-00
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